**JOB DESCRIPTION**

**Ref:**

**Job Title: Technical support position on development of air quality forecasting systems**

**Context and Mission:**

The Earth Science department at the Barcelona Supercomputing Center searches for one junior developer willing to work on the **operational air quality forecasting system CALIOPE. The position will support the developments to support up this system, port to Mare Nostrum 4 and will face different and state-of-the-art technologies. Furthermore, this position will be part of the Computational Earth Sciences group team dealing with many others IT profiles.**

**Key Duties**

* **Implementation, execution and monitoring of atmospheric numerical models (WRF-ARW, CMAQ) in a High Performance Computing environment.**
* **Interact with computational earth sciences scientist to improve the performance and the reliability of the system. This includes communication with HPC user support at BSC.**
* **Interact with atmospheric composition scientist to understand processes and model configuration.**

**Requirements**

* **Education**
  + **Computer Science Degree or similar**
* **Knowledge**
  + **Experience in programming especially in Python and C++**
  + **Experience in parallel programming models**
  + **Strong skills in Linux environment (shell, build, configure…). HPC skills will be valued.**
  + Fluent English, both written and spoke
  + Experience in Earth System models will be appreciated
  + **Experience in Earth Sciences file types (NetCDF, GRIB, HFD…), tools (CDO, NCO…) and managing large volumes of data** will be appreciated
* **Professional Experience**
  + **Experience in similar fields will be valued.**

**Conditions**

The position will be located at BSC within the Earth Sciences department in collaboration with the specific program coordinator. The contract will be for 1 year with the possibility of extension.

**Applications Procedure**

All applications must be applied in LINK including:

1. A motivation letter
2. A full CV including contact details

***OTHER DETAILS INTERNAL USE:***

***Duration of the contract:*** The duration of the contract will be for 1 year with the possibility of extension.

***Funding Project:*** AQFSMexDF

***Salary Range: (To be confirmed with HR)***